

Practice: 649 - Structures for Wildlife

Scenario: #6 - Fence Markers, Vinyl Undersill

Scenario Description: Existing fences are retrofitted with vinyl markers that increase wire visibility and reduce mortality due to collision for wildlife species of concern. Markers are installed approximately every 3 feet along top wire. Scenario is typically implemented along fences in potential high risk areas (red areas in SGI Fence Collision Risk Model) or where a known problem exists.

Before Situation: Wire fences located in high risk areas pose a collision threat to wildlife of special concern.

After Situation: Fence related mortality of species of special concern is reduced.

Scenario Feature Measure: feet of fence marked

Scenario Unit: Foot

Scenario Typical Size: 1320

Total Scenario Cost: \$198.31

Scenario Cost/Unit: \$0.15

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
----------------	----	-------------	------	------	-----	-------

Labor

General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$20.52	5	\$102.61
---------------	-----	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------	---------	---	----------

Materials

Vinyl Undersill Strips	241	Marking material using the "undersill" strips of vinyl siding. Priced per foot of fence per each wire. Materials only.	Foot	\$0.06	1320	\$79.20
------------------------	-----	------------------------------------------------------------------------------------------------------------------------	------	--------	------	---------

Equipment Installation

All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$33.00	0.5	\$16.50
---------------------------	-----	-------------------------------------------------	------	---------	-----	---------

Practice: 649 - Structures for Wildlife

Scenario: #7 - Brush Pile - Small

Scenario Description: Small brush piles are created to provide shrubby/woody escape cover for wildlife. Pushing or cutting of select small trees and placement in selected locations to provide wildlife cover. Typical scenario of 10' x 20' area for structure covered by interlocking limbs of trees less than 12 inches in diameter.

Before Situation: The existing habitat lacks escape, ground nesting and safe loafing cover.

After Situation: Small brush piles provide needed escape, ground nesting and safe loafing cover for targeted wildlife species.

Scenario Feature Measure: brush piles

Scenario Unit: Each

Scenario Typical Size: 1

Total Scenario Cost: \$34.82

Scenario Cost/Unit: \$34.82

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
----------------	----	-------------	------	------	-----	-------

Labor

Equipment Operators, Light	232	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$24.60	0.5	\$12.30
----------------------------	-----	-------------------------------------------------------------------------------------------------------------------------------------	------	---------	-----	---------

Equipment Installation

Skidsteer, 80 HP	933	Skidsteer loader with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$45.03	0.5	\$22.52
------------------	-----	---------------------------------------------------------------------------------------------------------	------	---------	-----	---------

Practice: 649 - Structures for Wildlife

Scenario: #8 - Brush Pile - Large

Scenario Description: Downed tree structures are created to provide shrubby/woody escape cover for wildlife. Existing sod will be killed prior to placement of tree structures. Felling of select trees and placement in selected locations to provide wildlife cover. Typical scenario of 30' x 50' area for structure covered by interlocking limbs of trees at least 12" in diameter.

Before Situation: The existing habitat lacks escape, ground nesting and safe loafing cover.

After Situation: Large brush piles provide needed escape, ground nesting and safe loafing cover for targeted wildlife species.

Scenario Feature Measure: brush piles

Scenario Unit: Each

Scenario Typical Size: 1

Total Scenario Cost: \$135.61

Scenario Cost/Unit: \$135.61

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
----------------	----	-------------	------	------	-----	-------

Labor

Equipment Operators, Light	232	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$24.60	1	\$24.60
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$20.52	3	\$61.57

Equipment Installation

Chainsaw	937	Equipment and power unit costs. Labor not included.	Hour	\$4.41	1	\$4.41
Skidsteer, 80 HP	933	Skidsteer loader with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$45.03	1	\$45.03

Practice: 649 - Structures for Wildlife

Scenario: #9 - Rock Structure

Scenario Description: This activity constructs piles of rock to provide habitat for wildlife where needed in both upland and aquatic systems, e.g. small mammals in uplands and aquatic cover/shelter to provide structure and nesting habitat for herpetofauna and/or fish in otherwise structurally deficient springs, wetlands and other fresh water aquatic systems (private ponds and lakes). Typical activity involves construction of quarried rock (riprap) 4-8 " in size, in piles randomly across the wetland area. Piles are approximately 7' L X 5' W X 3' H (5 tons/pile)

Before Situation: Existing habitat is deficient in habitat structure and lacks shelter for various species of small mammals, amphibians, reptiles and/or fish when used in fresh water aquatic systems (private ponds and lakes).

After Situation: Upland sites, springs, wetlands and other aquatic systems are enhanced/restored by the addition of habitat structure for loafing and escape and brood rearing.

Scenario Feature Measure: Rock Piles

Scenario Unit: Each

Scenario Typical Size: 1

Total Scenario Cost: \$598.69

Scenario Cost/Unit: \$598.69

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
----------------	----	-------------	------	------	-----	-------

Labor

Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$26.87	1	\$26.87
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$20.52	1	\$20.52

Equipment Installation

Hydraulic Excavator, 1 CY	931	Track mounted hydraulic excavator with bucket capacity range of 0.8 to 1.5 CY. Equipment and power unit costs. Labor not included.	Hour	\$114.85	1	\$114.85
---------------------------	-----	------------------------------------------------------------------------------------------------------------------------------------	------	----------	---	----------

Mobilization

Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$258.32	1	\$258.32
--------------------------------	------	-------------------------------------------------------------------------------	------	----------	---	----------

Materials

Rock Riprap, graded, angular, material and shipping	1200	Graded Rock Riprap for all gradation ranges. Includes materials and delivery only.	Ton	\$35.63	5	\$178.13
-----------------------------------------------------	------	------------------------------------------------------------------------------------	-----	---------	---	----------